

WHAT IS CLAIMED IS:

1. A stator for a rotary electric machine comprising:

a cylindrical stator core in which a plurality of slots opening onto an inner circumferential side are arranged in a circumferential direction; and

a stator winding constituted by electrical conductors housed so as to line up in a single column of $2n$ electrical conductors in a slot depth direction inside each of said slots, where n is an integer greater than or equal to 2,

wherein said stator winding has a plurality of output wires that are all led out from the electrical conductors housed in either a first position or a second position from a slot opening inside said slots, and has a plurality of vibration-absorbing bent portions, each of said vibration-absorbing bent portions being formed on each of said output wires between a leader portion led out from a coil end group and a tip portion of said output wire.

2. The stator for a rotary electric machine according to Claim 1, wherein said stator winding is provided with n winding assemblies mounted to said stator core so as to be superposed in a radial direction,

said winding assemblies each being constructed by arranging continuous conductor wire pairs equal in number to a predetermined number of slots so as to be offset by a pitch of one slot from each other, said continuous conductor wires being formed into a pattern in which said electrical conductors are linked by return portions and arranged at a predetermined slot pitch and in which adjacent pairs of said electrical conductors are offset so as to alternately occupy an inner layer and an outer layer in a slot depth direction by said return portions, said continuous conductor wire pairs each being formed such that two of said continuous conductor wires are arranged so as to be offset by said predetermined slot pitch from each other with said electrical conductors

superposed, end portions of said continuous conductor wires projecting outward on first and second sides at first and second ends of said winding assembly.

3. The stator for a rotary electric machine according to Claim 2, wherein said stator winding is constructed by forming three winding phase portions into a delta connection.

4. The stator for a rotary electric machine according to Claim 3, wherein each of said output wires are led out from respective electrical conductor housed in each of a series of slots positioned within a predetermined circumferential range.

5. The stator for a rotary electric machine according to Claim 2, wherein said stator winding is constructed by forming three winding phase portions into a Y connection, neutral-point leader wires of said three winding phase portions being joined to a single angle terminal.

6. The stator for a rotary electric machine according to Claim 5, wherein neutral-point leader wires of said stator winding are all led out from electrical conductors housed in either a first position or a second position from a slot opening inside said slots.

7. The stator for a rotary electric machine according to Claim 6, wherein each of said output wires and said neutral-point leader wires are led out from respective electrical conductor housed in each of a series of slots positioned within a predetermined circumferential range.

8. The stator for a rotary electric machine according to Claim 1,

wherein said stator winding is constituted by U-shaped conductor segments in which said electrical conductors are linked at a first end of said stator core, said linked electrical conductors being separated by a predetermined number of slots and housed in different positions in a slot depth direction inside said slots.

9. The stator for a rotary electric machine according to Claim 8, wherein said stator winding is constructed by forming three winding phase portions into a delta connection.

10. The stator for a rotary electric machine according to Claim 9, wherein each of said output wires are led out from respective electrical conductor housed in each of a series of slots positioned within a predetermined circumferential range.

11. The stator for a rotary electric machine according to Claim 8, wherein said stator winding is constructed by forming three winding phase portions into a Y connection, neutral-point leader wires of said three winding phase portions being joined to a single angle terminal.

12. The stator for a rotary electric machine according to Claim 11, wherein neutral-point leader wires of said stator winding are all led out from electrical conductors housed in either a first position or a second position from a slot opening inside said slots.

13. The stator for a rotary electric machine according to Claim 12, wherein each of said output wires and said neutral-point leader wires are led out from respective electrical conductor housed in each of a series of slots positioned within a predetermined circumferential range.